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A single record combines together all publication stages of the invention, from an unexamined publication to an examined document and to a granted patent.

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■ Updating: Weekly

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Selected document titles are available in other languages

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Country Coverage (year in parentheses indicates the year of earliest documents, column indicates comprehensive coverage date)

Country	Country Code	Coverage from:
Argentina	AR	1973
ARIPO	AP	1984
Australia	AU	1966
Austria	AT	1969
Belgium (1926)	BE	1964
Bosnia and	BA	1998
Herzegovina		
Brazil	BR	1973
Bulgaria	BG	1973
Canada	CA	1973
China	CN	1986
Croatia	HR	1994
Cuba	CU	1974
Cyprus	CY	1975
Czech Republic	CZ	1993
Czechoslovakia	CS	1973
Denmark	DK	1968
Estonia	EE	1995
Egypt	EG	1976
EPO citations to Publications	XP	1835
Eurasian Patents	EA	1997
European Patents	EP	1978
Finland	FI	1968
France (1902)	FR	1920
Germany (1877)	DE	1968
Germany, Democratic Republic	DD	1973
Great Britain (1909)	GB	1963
Greece	GR	1977
Hong Kong	HK	1976
Hungary	HU	1994
India	IN	1975
Ireland	IE	1973
Israel	IL	1968
Italy	ΙΤ	1973
Japan	JP	1973
Kenya	KE	1975
Korea	KR	1978

	1	1
Country	Country Code	Coverage from:
Latvia	LV	1994
Lithuania	LT	1994
Luxembourg (1946)	LU	1960
Malawi	MW	1973
Malaysia	MY	1971
Malta	MT	1968
Mexico	MX	1981
Moldova	MD	1994
Monaco	MC	1975
Mongolia	MN	1972
Netherlands (1912)	NL	1964
New Zealand	NZ	1979
Norway	NO	1968
OAPI	OA	1966
Philippines	PH	1975
Poland	PL	1973
Portugal	PT	1976
Romania	RO	1973
Russian Federation	RU	1972
Singapore	SG	1983
Slovakia	SK	1993
Slovenia	SI	1992
South Africa	ZA	1971
Soviet Union	SU	1972
Spain	ES	1968
Sweden	SE	1968
Switzerland (1920)	CH	1969
Tajikistan	TJ	1998
Taiwan	TW	2000
Trinidad & Tobago	TT	1994
Turkey	TR	1973
United States (1920)	US	1968
Vietnam	VN	1984
WIPO (PCT)	WO	1978
Applications		
Yugoslavia	YU	1973
Zambia	ZM	1968
Zimbabwe	ZW	1980

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### Sample Record

Example 1. PLUSPAT [MMAX display format] - Family JP04362718

```
1/1 PLUSPAT - (C) OUESTEL-ORBIT- image
CPIM (C) Ouestel-Orbit
PN - US5586334 A 19961217 [US5586334]
      CA2070955 A1 19921211 [CA2070955]
      CA2070955 C 19980915 [CA2070955]
      DE69227147 D1 19981105 [DE69227147]
      DE69227147 T2 19990218 [DE69227147]
      EP0518622 A1 19921216 [EP-518622]
      EP0518622 B1 19980930 [EP-518622]
      JP4362718 A 19921215 [JP04362718]
      JP7101376 B 19951101 [JP95101376]
      JP2068463 C 19960710 [JP2068463]
     KR9510829 B1 19950923 [KR9510829]
TI - (A) Apparatus and method for suspending and resuming
     software on a computer
OTI - (A1) Dispositif et procédé à discontinuer et à reprise
     en marche du logiciel dans un ordinateur.
    - (A1) Anordnung und Verfahren zur zeitweiligen
     Einstellung und Wiederinbetriebnahme von Software in
     einem Rechner.
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
IN - (A) MIYAZAKI MASAYA (JP); ENOKI NOBUYUKI (JP); MORITA
     MITSUAKI (JP)
AP - 1991JP-0137486 19910610; 1992DE-6027147 19920609;
      1995US-0376097 19950120; 1992KR-0010031 19920610;
      1992CA-2070955 19920610; 1992EP-0305289 19920609
PR - 1991JP-0137486 19910610; 1992US-0896131 19920609;
     1995US-0376097 19950120
IC - (A) G06F-001/26
EC - G06F-009/445B; G06F-011/14A8S
PCL - 713300000 714024000
DS - (EP-518622)
     DE FR GB IT
CT - (US5586334)
     US3959778; US4096560; US4458307; US4907150; US4994934;
      US5167024; US5218607; US5276890; US5339444; US5375230;
      US5392438; EP0230351; EP0365128; EP92007321; WO9207321
    - Toshiba T1600 Portable Personal Computer User's Manual,
      Sep. 1988.
      Elektor Electronics, vol. 9, No. 12, Dec. 1983,
      Canterbury, Great Britain, pp. 12.58-12.61, `NOVRAM:
      Data Storage without batteries`.
      Book Computer J-3100SS002 DynaBook/DynaBook Guide, Jun.
     22, 1990.
CT - (EP-518622)
     Cited in the search report
    - EP365128(A)(Cat. X); EP230351(A)(Cat.
     X,D);WO9207321(A)(Cat. A,P);EP418448(A)(Cat. A)
    - ELEKTOR ELECTRONICS vol. 9, no. 12, December 1983,
     CANTERBURY, GB pages 1258 - 1261; ANON.: 'NOVRAM: data
     storage without batteries'(Cat. Y)
AB - (US5586334)
      There is disclosed a control unit of a computer system
      comprising a volatile storing device for holding
      written data while the power is on, a non-volatile
      storing device for holding the written data even when
      the power is off, and a power-off preserving device for
      powering off after transferring the data held in the
      volatile storing device to the non-volatile storing
      device. The control unit of the computer system further
      comprising a power-on resuming device for returning the
      data held in the non-volatile storing device to the
      volatile storing device. {Display Abbreviated}
```

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Example 2. Pluspat [STGS & IMG display format] - US patent (A document) - Filing Details

```
1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5946831 A 19990907 [US5946831]
STG - (A) United States patent
TI - (A) Amphibious scraper
PA - (A) WILCO MARSH BUGGIES & DRAGLINE (US)
IN - (A) WILSON SR JOHN M (US); WILSON DEAN R
IC
    - (A) E02F-003/64
   - US70854996 19960905 [1996US-0708549]
ΑP
FD - Rel. Prov. 60/018,761 19960531 [1996US-P018761]
PR - US70854996 19960905 [1996US-0708549]
    - US1876196P 19960531 [1996US-P018761]
EC - E02F-003/64
    - E02F-003/65
    - E02F-009/02D
    - E02F-009/02L
PCL - ORIGINAL (O): 037412000; CROSS-REFERENCE (X): 172799500
DT - Basic
CT - US2964861; US3110972; US3445946; US3776318; US3890010; US4248287;
     US4253512
    - Undated Document entitled "Wilco Marsh Buggies, Inc. Experts in
      De-Watering and Disposal Area Construction".
AB - Apparatus and methods are described for modification of a scraper, or
      similar heavy equipment, for operation in wet or swampy areas
      including dredge disposal areas. A floatation tire assembly is
      described which is removably affixable to the scraper to give the
      scraper the amphibious capability to operate in the wet, swampy
      environment.
 52
                                                    .50
                                                      -66
                          22
                                  24
                              24
```

Example 3. Pluspat - [MABS Format] - Transliteration Free Assignee & Inventor Names

```
CPIM (C) Questel-Orbit
PN - EP0451049 A1 19911009 [EP-451049]
      EP0451049 B1 19981021 [EP-451049]
      AT172560 T 19981115 [ATE172560]
      DE69130373 D1 19981126 [DE69130373]
      DE69130373 T2 19990520 [DE69130373]
      FR2660458 A1 19911004 [FR2660458]
      FR2660458 B1 19920717 [FR2660458]
      JP4227573 A 19920817 [JP04227573]
TI - (A1) Method and storage/retrieval system of chemical
     formulae in a database.
OTI - (A1) Proc,d, et systŠme de stockage et de recherche de
      formules chimiques dans une base de donn, es.
    - (A1) Verfahren und Speicher- und Abrufsystem von
      chemischen Formeln in einer Datenbank.
PA - (A1) QUESTEL (FR)
PAO - QUESTEL SOCIETE ANONYME; 83-85, BLD VINCENT AURIOL
      75013 PARIS FRANCE
IN - (A1) RENAUD DOMINIQUE (FR); ROUSSEL JEAN-CLAUDE (FR)
INO - (A) DOMINIQUE RENAUD; JEAN-CLAUDE ROUSSEL
AP - 1991JP-0133818 19910329; 1991AT-0400897 19910402;
      1991DE-6030373 19910402; 1990FR-0004134 19900330;
      1991EP-0400897 19910402
PR - 1990FR-0004134 19900330
IC - (A1) G06F-015/40
   - G06F-017/30A2
DS - (EP-451049)
      AT BE CH DE DK ES FR GB GR IT LI LU NL SE
AB - (EP-451049)
      The invention relates to a method and a device for
      storage of and searching for Markush formulae (1) in a
      database. Each formula is stored in the form of
      connectivity tables in a base file (14) and comprises a
      reference number and a preselection number.
      For each base file (14) formula and for the formula
      sought (3), stored in a form identical to the file
      formulae, the list of all the nodes comprising two
      immediate neighbours is determined, and for each of the
      nodes of this list, all the fragments of formulae with
      two environments, stemming from this node, are
      calculated. For a first fragment of the Markush formula
      sought, there are then extracted from the file of
      fragments formed a first list of reference numbers of
      the possible formulae, then possibly a second list and
      so on until a list stemming from fragments of formula
      of optimised length is formed. Finally, the
      preselection numbers of the Markush formula sought are
      compared with the preselection numbers of the formulae
      from the list stemming from fragments in order to
      obtain a final list of candidates.
```

#### Example 4. Pluspat [STDR Format] - Index Terms - French Patent

```
PN - FR2660458 A1 19911004 [FR2660458]
PN2 - FR2660458 B1 19920717 [FR2660458]
OTI - (A1) PROCEDE ET SYSTEME DE STOCKAGE ET DE RECHERCHE DE
FORMULES CHIMIQUES DANS UNE BASE DE DONNEES.

IT - DATA BASE; STORING; SEARCH; CHEMICAL FORMULA
PA - (A1) QUESTEL (FR)
PA2 - (B1) QUESTEL (FR)
PA0 - QUESTEL SOCIETE ANONYME; 83-85, BLD VINCENT AURIOL
75013 PARIS FRANCE
IN - (A1) DOMINIQUE RENAUD; JEAN-CLAUDE ROUSSEL
AP - FR9004134 19900330 [1990FR-0004134]
PR - FR9004134 19900330 [1990FR-0004134]
IC - (A1) G06F-015/40
EC - G06F-017/30A2
```

# Searching

## Basic Index includes TI, OTI, AB and IT

Search by	Index	Search Hints	Examples
Terms from the Basic Index	/BI (default)	The Basic Index incorporates: Title (TI), Original Title (OTI), Abstract (AB) and Index Terms (IT) For Select French Patents Only	
		All Basic Index terms may be searched without field qualifiers.	
		For all these indexes, search by: - Single terms using Boolean or proximity operators; - Phrases using implied adjacency.	SYNTHETIC AND AQUEOUS HYDROPHOB+ POLYMER? +SPHERE+
		Use truncation. Left-hand truncation is available.	TOFFICKET
Title	/ті	Search English language title by: - Single terms using Boolean or proximity operators Phrases using implied adjacency.	/TI OSTEOGENIC PROTEIN?
		Use truncation. Left-hand truncation is available.	/TI +LITOGRA+
Original Title	/ОТІ	Search non-English language title: - Single terms using Boolean or proximity operators Phrases using implied adjacency.  Use truncation. Left-hand truncation is available.	/OTI OPTIQUE AND MULTIPLEXEUR  /OTI FOTOINICIADORES FUNCIONALIZADOS
Abstract	/AB	Search terms in abstract for the following countries: US, PCT, EP, GB, FR, DE, CH, JP, CN* Search using: - Single terms using Boolean or proximity operators Phrases using implied adjacency.  Use truncation. Left-hand truncation is available.  *Additional Countries are added periodically from 2000.	/AB DNA AND VIRUS /AB "3D" DATA /AB PHENYL AND +VIRAL
Index Terms	/IT	English Language Index Terms for select French Patent Records. Search using: -Single terms using Boolean, proximity operators and/or truncationPhrases using implied adjacency and/or truncation. **Please note: Left hand truncation is not supported.	/IT DISTANCE /IT ROBOT+ /IT DISTANCE MEASUREMENT

### **Publication Data**

Search by	Index	Search Hints	Examples
Publication number	/PN (/PC, /PUB, KD)	• Search all the patent publication stages using the patent/publication number in the format:  1) if patent authority uses a continuous series:  CC-NNNNNN  (if number is <7 digits, fill with a hyphen (-) after the country code)	/PN EP-982976 /PN EP84665
		2) if patent authority restarts number series each year: pre Y2K: CCYYNNNNN (if number is <5 digit, fill with 0 (zeros) after the series year CCYY)	/PN WO8909788 /PN WO9916958
		post Y2K: CCYYYYNNNNN CCYYYYNNNNNN	/PN WO200016958 /PN JP2000077507 /PN US20010000001
		Search for all publications by ISO country code	/PN US
		CC= ISO country code NNNNNNN= publication number	/PN DE19743500
		Search by publication country and kind code information:  CCKK	JPB2/PN EPA/PN EPB#/PN
		Search by publication date:     YYYYMMDD     YYYYMM     YYYY	19950625/PN 199506/PN 1995/PN
Publication date	PD	First original publication date. Search in the format: YYYY-MM-DD YYYY-MM YYYY Use numeric operators: =, <, >, <=, >=	PD=1985-10-19 PD=1997-04-01:1997-04-15 PD>=1997
Internal Publication Kind (Kind of Document)	/IKD	Searchable CCKK where CC is the country code and KK is the kind code. Use IKD with NBR, MEM, MEMS and GET.	/IKD JPB2 /IKD EPB#
Standardized Patent Number	/XPN	To facilitate searching across patent databases, Questel Orbit has created a standardized patent number field. Use MEM /XPN to extract standardized patent numbers.	MEM /XPN
		Use *MEM /XPN to search the standardized patent numbers.	*MEM /XPN
		To search as cited references.	*MEM /XCT

## **Application Data**

Search by	Index	Search Hints	Examples
Application number	/AP	Search application number using the number in the format:     YYYYCC-NNNNNNN	/AP 1978EP-0100811
		YYYY= 4-digit application year CC= ISO country code NNNNNNN= 7 digit application number (fill with 0 zero(s) if number contains less than 7 digits)	/AP 1989WO-US01505 /AP 1999US-0353402
		Search by application date in the format:     YYYYMMDD     YYYYMM     YYYY	19980615/AP 199806/AP 1998/AP
Application country	/APC (or /AP)	Search by ISO country code.	/APC WO /APC DE
Application date	/APD	Search in the format: YYYY-MM-DD YYYY-MM YYYY  Use numeric operators: =, <, >, <=, >=.	APD=1999-03-09 APD=1999-01:1999-06 APD>=1996
Standardized Application Number	/XAP	To facilitate crossfile searching with other patent databases, Questel•Orbit has created a standardized application number field: YYYYCC-NNNNNNN.	
		Use MEM /XAP to extract standardized application numbers. Use *MEM /XAP to search the standardized application numbers.	MEM /XAP *MEM /XAP

## **Priority Data**

Search by	Index	Search Hints	Examples
Priority number	/PR	Search the priority number using the number in the format:     YYYYCC-NNNNNNN	/PR 1995DE-1020801
		YYYY= 4-digit application year CC= ISO country code NNNNNNN= 7 digit application number (fill with leading 0 zero(s) if number contains less than 7 digits)	/PR 1998US-0179680
		Search by priority date in the format:     YYYYMMDD     YYYYMM     YYYY	19970919/PR 199709/PR 1997/PR
Number of priorities	/NPR	Use numeric operators: =, <, >, <=, >=.	NPR=3 NPR>1
Priority country	/PRC (or /PR)	Search by ISO country code.	/PRC CA /PRC NL
Priority date	/PRD	Search in the format: YYYY-MM-DD YYYY-MM YYYY Use numeric operators:	PRD=1998-04-07 PRD=1999-01:1999-06 PRD>=1998
Standardized Priority Number	/XPR	To facilitate crossfile searching with other patent databases, Questel•Orbit has created a standardized priority number field:  YYYYCC-NNNNNNN.	MEM (VDD
		Use MEM /XPR to extract standardized priority numbers. Use *MEM /XPR to search the extracted priority numbers.	MEM /XPR *MEM /XPR

### **Classification Data**

EPO Classification (ECLA)	/EC	Search the ECLA codes in the following formats:	
Note: ECLA codes are revised monthly and		SubClass: ANNA Group: ANNA-NNN	/EC A63F /EC E21B-001 /EC E21B-00?
retrospectively applied		SubGroup: ANNA-NNN/NN	/EC E21B-003/02
		Subdivision:	
		ANNA-NNN/NNN ANNA-NNN/NNA ANNA-NNN/NNAN ANNA-NNN/NNANA ANNA-NNN/NNANAN	/EC C21D-001/773 /EC C21D-006/00K /EC B25G-001/06S1 /EC B25F-005/02B2B /EC C12Q-001/68D2E1
		The generic levels are separately searchable without truncation.	/EC A63F /EC E21B-001
		Use double quotes to search the complementary chemical codes that contain colon [:] separators.	/EC "C07C-025:08" /EC "C07C-025:125"
		Note: To search the range of ECLA codes, use colon [:] between the first and last item specified in the range of codes. Auto posting of the subclasses may cause false hits, please use this feature with care.	/EC A63F-001/00:A63F-001/16
EPO Classification ICO (In Computer Only) Classification	/ICO	ICO classification is based on the ECLA classification system. The ICO codes are used in the following	
Note: Applied by the EPO examiners		cases:     - non-inventive aspects;     - when one group takes precedence over another group;     - for additional characteristics (if	
		there is no specific group).	/ICO K61M
		ICO symbols are derived from	/ICO K61M-016
		classification symbols, with a different 1 <sup>st</sup> letter: instead of A,B,C,D,E,F,G,H	/ICO K61M-016/00M8
		the letters K,L,M,N,P,R,S,T are used.	/ICO L65D-019/00Y4B1
		The ICO codes maybe either entirely or partially derived from the ECLA codes (there are also codes that are	/ICO L65G-812/02F4D2D4B
		not derived from an existing code).	

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**Classification Data (cont'd)** 

Ciassification Da	(55111	<u>,</u>	
International Patent Classification (IPC)	/IC (or /IPC)	IC field includes main, additional, original and secondary IPC codes.	
		Search the IPC code(s) in formats: Class ANN# SubClass ANNA Group ANNA-NNN SubGroup ANNA-NNN/NN	A63#/IC A63B/IC A63B-043/IC A63B-043/06/IC
		The generic levels are separately searchable without truncation.	A42C/IC /IC A42C-00#
		Note: To search the range of IPC codes, use colon [:] between the first	/IC A42C-001:A42C-003
		and last item specified in the range of codes. Auto posting of the subclasses may cause false hits, please use this feature with care.	/IC A42C-001/00:A42C-001/08
	/ICM /ICA /ICS	ICM: Main IPC (from 1995 onwards) ICA: Additional IPC ICS: Secondary IPC	/ICM A63B-043 /ICA B25B-001 /ICS F01B
USPTO Classification (PCL)	/PCL	Search the Main (Primary) and Cross Reference (Secondary) classes simultaneously	
Note: US Classes are revised quarterly and retrospectively applied		Search the original US classification with 9 or 12 characters in the format: MMMSSSDDDAAA.  - MMM= three digit main class  - SSS= three digit subclass or DIG for digest  - DDD= three digits	/PCL 714777000
		- AAA= 1-3 alpha characters	/PCL 714
		To search the PCL by: - the class (3 characters), - the "digest" including the DIG notice, - the full code (ending with 3 digits (DDD) and 3 alphanumeric characters (AAA).	/PCL 714005
	/PCLO	Search the Main US Class	/PCLO 714
EPO Classification (Dutch)	/IDT	Search the old EPO Dutch classification	/IDT 124PA2F4B3B
(330)			/IDT 42K18C
EPO Classification (Berlin)	/BC	Search the old EPO Berlin Classification	/BC F02C-007/264
,			/BC B41J-021/02

**Applicant and Inventor Data** 

Search by	Index	Search Hints	Examples
Patent Assignee	/PA,	Search by: - single terms using search operators and truncation	/PA MAX AND PLANCK
	/PA0	- full name using implied adjacency /PA0 searches additional Patent Assignee	/PA MAX PLANCK
		Information for US, JP, FR, <b>EP*</b> and <b>WO*</b> records. Terms in the /PA0 field will be retrieved by qualifying to the /PA field or by displaying and selecting from the /PAN index.	/PA0 GENERAL ELECTRIC
		*EP data begins June 2002  *WO data begins February 2003  **Please Note: Address information within the PA0 field is not searchable.	
	/PAN /PANA	/PAN index searches the patent assignee's name only for the 1 <sup>st</sup> publication stage. /PANA searches Patent Assignee name in all	NIDD (DANA MANY DI ANIQIZ
		publication stages as a bound phrase.  With the NBR, use /PANA index.  With MEM and MEMS commands, use The /PAN index.	NBR /PANA MAX PLANCK
Patent Assignee -Country	/PAC	Search by patent assignee country using the two letter country code or country name.  Note: not all the records include the PAC field.	/PAC JP /PAC JAPAN /PAC NL
		neid.	/PAC FR
Inventor	/IN	Search by: Single terms or groups of words from the inventor name. Full name using implied adjacency. Use the D proximity operator to combine the Family Name and First Name.	/IN THOMPSON DARWIN /IN OPPERMANN D H
	/INO	JP Records Only IN0 searches additional Inventor information for JP records. The /IN0 field provides transliteration free data for Inventor names. Terms in the /IN0 field will be retrieved by qualifying to the /IN field or by displaying and selecting from the /INN index. **Please Note: Address information within the IN0 field is not searchable	/INO SMITH JOHN
	/INN, /INNA	/INN index searches the inventor's name only for the 1 <sup>st</sup> publication stage. Use /INNA to search full Inventor Name in all publication stages as a bound phrase.	/INN NAGANUMA KATSUYOSHI
		With NBR, use /INNA index.	NBR /INNA GUNTHER C J
		Note: First names or may appear as initials only, so try both. Multiple initials may be separated by spaces, e.g. GUNTHER C J	
Inventor Country	/INC	Search by ISO country code or country name	/INC US /INC JAPAN

### **Other Indexes**

Search by	Index	Search Hints	Examples
Cited References / Search Report (used by applicant and examiner)	/CT	Includes patent and bibliographic citations for US, EP, FR, GB, and PCT publications. Also includes cited references by applicant for FR publications.  Format is the same as the PN field: CCNNNNNNN.	/CT US4352588
		Search patent citations using: - Standardized patent number - Two letter country code - Relevance category code  Relevance Category codes, also known as relevance indicators, include:	/CT GB-222937 /CT JP
		A – Technological background; D – Document cited in application; E – Earlier patent document; L – Document cited for other reasons; O - Non-written disclosure; P – Intermediate document; T – Theory or principle; X – Relevant if taken alone; Y – Relevant if combined with other documents; & - Member of same patent family.	/CT CAT A /CT CAT "D" /CT CAT E /CT CAT "L" /CT CAT O /CT CAT "P" /CT CAT X
		Search bibliographic citations using: - keywords - article XP reference number	/CT IBM /CT XP 002058560
Standardized publication/patent numbers in the CT field	/XCT	To facilitate crossfile searching with other patent databases, Questel Orbit has created a standardized citation number field:  CCNNNNNNN.	
		Use MEM /XCT to extract standardized citation numbers. Use *MEM /XCT to select the standardized citation numbers.	MEM /XCT *MEM /XCT
		Use *MEM /XPN to search the extracted citation numbers as the standardized patent/publication numbers.	*MEM /XPN

## Other Indexes (cont.)

Designated states for			
European Patents (EP) and PCT applications	/DS	Search by ISO country code using the two letter format CC.	/DS AT
(WO)		The EP designated states are from the last EP publication stage.	/DS GB AND FR
Document Type	/DT	Search by the following EPO designated document types available: (Not recommended for complete retrieval.) - Basic - Corresponding Document - Intellectual Family - Old Publication	/DT BASIC /DT CORRESPONDING DOCUMENT /DT INTELLECTUAL FAMILY /DT OLD PUBLICATION
Filing Details	/FD	Available for US Records ONLY Provides information such as whether one patent is based upon another or is a division of another.	
		Search using:	
		Standardized Questel Orbit format: YYYYUS-NNNNNNN YYYY = Year US = Country code NNNNNNN = Filing Number Please Note: The USPTO Series Code is not used, infill with zeroes as necessary.)	/FD 2000US-0730246
		The exception is provisional applications beginning with series code 60. Replace 60 with P.	/FD 2001US- <b>P</b> 132684
		Search by the US publication number using format USNNNNNNN	/FD US5105599
		Search by the presence of the field.	FD=YES
Original language	/LA	Language is provided for EP and WO documents and in all other cases	/LA ENG
		where the language is not the sole official language of the country.	ENGLISH/LA
		Search LA using the ISO three letter language code: CHI Chinese DAN Danish DUT Dutch ENG English FIN Finnish FRE French GER German ITA Italian JPN Japanese NAU Nauru NOR Norwegian RUS Russian SLO Slovak SPA Spanish SWE Swedish	/LA GER OR FRE

## Other Indexes (cont.)

Undata andas	/OW/	Soarch lotast undata for now	10M 2000 08
Update codes	/QW	Search latest update for new	QW 2000-08
	/LID	publications	/LID 2002 22
	/UP	Search latest update for added	/UP 2002-22
		documents. UP may contain older	
		publications recently added to the EPO	
		collection	# IE 0004 00
	/UE	Search publication stages update	/UE 2001-33
	/UAB	Searches update for addition of	
		abstracts	
	/UCL	Searches update for the addition of EC	/UCL 2002-36
		and/or PCL classifications	
	/UCT	Searches update for addition of	/UCT 2002-35
		citations/search report	
		Use the relevant update code in the	
		following format:	
		YYYY-WW	
	/QM	Search monthly update for new	/UP4 2001-03
		documents.	
		<b>.</b>	
		Note: update periods are available	
		starting August 2000 only, and Monthly	
		periods from Feb. 2000 only.	

### **Statistical Analysis**

The following patent information in the PLUSPAT database can be statistically analyzed:

Publication Info			Application / Prior	ity Info	Classifications			
	Patent Assignee	GET PA	Priority Country	GET PRC	IPC Intl .Patent Classif	. GET IPC		
		GET PAN	Priority Date (year)	GET PR	Main IPC	GET MIPC		
	Inventor	GET IN		GET PRD				
		GET INN			ECLA			
			Application Country	GET APC	(European Classification	on) GET EC		
	Publication Country	GET PC	Application Date (year)					
	Publication Date (year)	GET PD		GET APD	US Classes	GET PCL		
	Publication Year	GET PY			US Main Class	GET PCLO		

Note: GET PA (GET PAN), GET IN (GET INN) are analyzing the first stage publication information only.

General Syntax: GET <field>

Options:

EMAIL GET <field> EMAIL to receive statistical analysis results via email TOP n GET <field> TOP N EMAIL to specify TOP N entries in the analyzed listing

TOSEL tname> GET <field> TOSEL tname> TOP N STORE GET <field> TOSEL tname> STORE

Syntax: GET ss N <field> TOSEL stname> SAVE/STORE [TOP N, GT M]

Example: GET PA TOP 20 EMAIL

### **Current Awareness – SDI Profiles**

It is possible to setup SDI (Current Awareness) profiles in the PLUSPAT database by using the SDI command after the search strategy has been created in the database. The created SDI profiles will be automatically run against each new update to the database or you may choose to receive the results on a monthly basis and the results will be sent either via postal mail or email (if specified).

General Syntax: SDI <SDIname>

SDI <SDIname> <EMAIL>;SURV <update code>;PR <format>;<options>

Specific Update Syntax: SDI <SDIname>;SURV <update code field>

SURV QW SDI <SDIname>;SURV QW survey only new documents

SURV UP SDI <SDIname>;SURV UP survey all documents in latest update

(may contain older publications recently added

to the EPO collection)

SURV UE SDI <SDIname>;SURV UE survey equivalent documents

SURV UAB SDI <SDIname>;SURV UAB survey documents amended with abstracts SURV UCL SURV UCL SURV UCT SDI <SDIname>;SURV UCT survey documents amended with ECs & PCLs survey documents amended with citations

SURV QM SDI <SDIname>;SURV UP4 survey documents monthly

Note: to survey both new and equivalent document updates: SDI <SDIname>; SURV UP UE

Parameters:

EMAIL SDI <SDIname> EMAIL to receive SDI results via email

RTF SDI <SDIname> EMAIL RTF to include special characters, accents etc.

XML PDF

PR <format> SDI <SDIname> EMAIL RTF;PR ABST to specify record display format

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## **Family Searching**

#### 1. Family search based on the patent

To create a patent family for a particular invention, use the **FAM** command with the known patent number. *Note:* the XPN, XAP, and XPR fields may also be used for family searching as long as the Questel•Orbit standardized format is used.

Command Syntax: FAM CCNNNNNNN/PN using patent/publication number

FAM YYYYCC-NNNNNN/AP using application number using priority number

Examples:

Publication number: FAM EP---1234/PN Standardized Format
 Application number: FAM 1978EP-0100811/AP Standardized Format
 Priority number: FAM 1997DE-1020719/PR Standardized Format

#### Family search results display options:

FAMCITE Citation Results, forward and backward, by Family, for EP, FR, GB, PCT & US citations
FAMSTAT Results of the patent family search from PLUSPAT file and the corresponding records

from the LGST (Legal Status) database integrated into the display

FAMSTATE Family search results with integrated Legal Status (English language action descriptions

only), also FAMSTAT MAXE

FAMLIST Family search results from PLUSPAT file and all the corresponding records from the

Legal Status database attached after the PLUSPAT records

FAMLISTE Same display as FAMLIST (English language action descriptions only)

FAMINPD Family search results from PLUSPAT file only (Legal Status records are not included)

MFAMSTAT Same display as FAMSTAT integrated into one family record Same display as FAMSTATE integrated into one family record

### FAM SS (Search Set)

#### 2. Family search based on the set of documents

To create a patent family on a set of documents, use the **FAM** command followed by the search set number (SS N, where N is the number of the search set). Use HIS command to determine the search set number.

**Command Syntax:** FAM SS N (where N is a search set number in a strategy)

Note: family search based on the SS number is limited to 1000 documents in the search set.

**Example:** FAM SS 1 (perform family search based on the results of search set number 1)

java

\*\* SS 1: Results 471

Search statement 2

fam ss 1

**377** Patent Groups \*\* SS 2: Results **946** 

## **Family Feature Displays**

The FAM search feature and the MFAM display feature provide for the display of merged family records.

- FAM feature automatically retrieves all family member records for a set of results\*
- MFAM feature integrates individual family member records into one merged family record\*\*

After performing a family search, by using a number or a search statement, Questel-Orbit will respond by showing the total number of PlusPat records and the number of family records in the search statement.

Search statement 1

java

\*\* SS 1: Results 471

Search statement 2

fam ss 1

377 Patent Groups

\*\* SS 2: Results 946

prt mtst (see MFAM display formats page 19)

#### **Building MFAM record:**

- Patent number data is taken from all family member records.
- Title, Assignee, and Inventor data elements are selected from a specific patent country / authority (see default order below)
- Abstract data may be provided from one preferred patent country /authority or from all family member records with abstracts.
- · Cited references will be displayed for all EP, WO, FR and US family members, where available
- **Designated States** will appear for every EP and PCT publication. The EP designated states are from the last EP publication stage.
- Classification Codes: ECLA, US PCL, IPC, and ICO
  All the classification codes will be displayed for all members of the family.

#### Basis for Selecting Title, Assignee, Inventor and (first-listed) Abstract data:

The Patent authority default is set as the PCT minimum documentation collection with the order as follows:

EP, US, WO, GB, FR, DE, CH, BE, JP, SU/RU

This means that title, Assignee, Inventor, and Abstract data will be selected from the EP record as a basis for building the record. If there is no EP record in the family, title, assignee, inventor and abstract data will be selected from the US record. If there is no US record in the family, data from the WO record will be used.

- \* fam ss is limited to results sets with 1000 records or less
- \*\* records may also be displayed with regular formats, i.e. one record per patent country /authority

#### **Selecting MFAM Patent Country / Authority Preference**

A specific Patent Country or Authority may be selected as the basis for the building the merged record.

This is controlled by the POP or OP options.

Example: POP MFAM US

In this example, the Title, Assignee, Inventor, and Abstract for the US member will be used for creating the records and the US numbers will appear first in the merged record. If there is not a US family member, then the default display will be used.

• To set POP/OP to the default, use POP MFAM EP

#### Order for Patent Country / Authority Publication Numbers in a merged record:

POP/OP MFAM preference then Publication stages in alpha order, e.g.: AT , AU - ZW

### **Displaying Family Records**

Family display formats are used with regular display syntax:

PRT <SS N> <format> <set, m-n>

#### **Examples:**

PRT SS 3 MTST SET

PRT MABS 1-5

PRT MMAX PSET 3

		•										
	F											
MTST	TI	OTI	IC	EC	ICO	PCL						
MSC	TI	OTI	IC	EC	ICO	PCL						
MABS	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO
	PCL	DS	AB									
MSTD	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO
	PCL	DS										
MALL	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO
	PCL	DS	CT	AB								
MMAX	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO
	PCL	DS	CT	AB								
MMSS	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	DS		
MSTA	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO
	PCL	DS	AB									
MINI	PN	TI	PA	PA0	IN	IN0	AP	PR				
MASE	PN	TI	PA	PA0	IN	IN0	AP	PR	AB			
BIBP	PN	STG	PN2	STG2	PN3	STG3	PN4	STG4	PN5	STG5	PN6	STG6
	PN7	STG7	PN8	STG8	PN9	STG9	TI	PA	PA0	IN	IN0	AP FD
	PR	CT										
MSTE	PN	TI	PA	PA0	IN	IN0	AP	PR	IC	EC	ICO	PCL
	DS	AB										
MSTG	PN	STG	TI	OTI	PA	PA0	IN	IN0	IC	AP	PR	EC
	ICO	IDT	PCL	BC	ΙΤ	DS						
MCIT	PN	TI	OTI	PA	PA0	IN	IN0	AP	PR	CT	AB	

- Records may also be displayed with regular formats, i.e. one record per patent country/authority
- User defined display formats are not available for Merged Record Display

### **Family Display Options**

1) **Legal Feature:** Display including corresponding Legal Status record(s):

<FORMAT> LEGAL

PRT MMAX LEGAL

2) Fulltext / Clms Feature: Display including corresponding Full-text or Claims record(s):

PRT <FORMAT> FULLEPO CLM

PRT MASE FULLEPO CLM

3) **Cited Feature:** Display including corresponding Cited record(s):

<FORMAT> CITALL

PRT MSTE CITALL

4) Images Feature:

PRT IMG <N-N> <FORMAT> Please note: IMG must directly follow PRT statement

PRT IMG 1-10 MSTA

5) Plus Feature:

PRT <FORMAT> PLUS <FIELD OR FORMAT> (FILE)

PRT MINI PLUS TI (DWPI)

#### MSC / MTST

```
1/1 PLUSPAT - (C) QUESTEL-ORBIT
  Title of the Invention:
      - (A) Control apparatus for controlling data read
        accesses to memory and subsequent address generation
        scheme based on data/memory width determination and
        address validation
 Other Title:
      - (A1) Dispositif et proc'ed'e d'acc'es rapide de lecture `a
       m'emoire.
      - (A1) Vorrichtung und Verfahren zum Speicherleszugriff
       mit hoher Geschwindigkeit.
  IPC (issuing Office):
      - (A) G06F-012/02
 EPO Classification(ECLA):
      - G06F-012/02C
 US Class Code:
      - ORIGINAL (O) : 711220000; CROSS-REFERENCE (X) :
        711003000
```

```
1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5579500 A 19961126 [US5579500]
      CA2116314 A1 19940825 [CA2116314]
      DE69431737 D1 20030102 [DE69431737]
      EP0613087 A1 19940831 [EP-613087]
      EP0613087 B1 20021120 [EP-613087]
      JP6309222 A 19941104 [JP06309222]
     TW389863 B 20000511 [TW-389863]
{\tt TI} - (A) Control apparatus for controlling data read accesses to memory and
      subsequent address generation scheme based on data/memory width
      determination and address validation
OTI - (A1) Vorrichtung und Verfahren zum Speicherleszugriff mit hoher
     Geschwindigkeit.
    - (A1) Dispositif et procédé d'accés rapide de lecture à mémoire.
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
PAO - Matsushita Electric Industrial Company, Ltd., Osaka [JP]
IN - (A) SEKIBE TSUTOMU (JP); KITAMURA TOMOHIKO (JP); OCHIAI TOSHIYUKI
      (JP)
AP - 1994US-0200217 19940223; 1994DE-6031737 19940222; 1994TW-0101564
     19940223; 1994CA-2116314 19940223; 1994EP-0301250 19940222;
     1993JP-0353164 19931228
PR - 1993JP-0035092 19930224; 1993JP-0353164 19931228
IC - (A) G06F-012/02
EC - G06F-012/02C
PCL - 711003000 711220000
DS - (EP-613087)
      DE FR GB
```

#### **MMAX**

```
1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
 PN - US5579500 A 19961126 [US5579500]
       CA2116314 A1 19940825 [CA2116314]
       DE69431737 D1 20030102 [DE69431737]
       EP0613087 A1 19940831 [EP-613087]
       EP0613087 B1 20021120 [EP-613087]
       JP6309222 A 19941104 [JP06309222]
       TW389863 B 20000511 [TW-389863]
 TI - (A) Control apparatus for controlling data read accesses to memory and
       subsequent address generation scheme based on data/memory width
       determination and address validation
 OTI - (A1) Vorrichtung und Verfahren zum Speicherleszugriff mit hoher
       Geschwindigkeit.
      - (A1) Dispositif et procédé d'accés rapide de lecture à mémoire.
     - (A) MATSUSHITA ELECTRIC IND CO LTD
                                           (JP)
  PAO - Matsushita Electric Industrial Company, Ltd., Osaka [JP]
  IN - (A) SEKIBE TSUTOMU (JP); KITAMURA TOMOHIKO (JP); OCHIAI TOSHIYUKI
        (JP)
 AP - 1994US-0200217 19940223; 1994DE-6031737 19940222; 1994TW-0101564
       19940223; 1994CA-2116314 19940223; 1994EP-0301250 19940222;
       1993JP-0353164 19931228
 PR - 1993JP-0035092 19930224; 1993JP-0353164 19931228
  IC - (A) G06F-012/02
 EC - G06F-012/02C
 PCL - 711003000 711220000
 DS - (EP-613087)
       DE FR GB
     - (US5579500)
        US4691277; US4872138; US4914575; US5157776; EP0293720; EP0505157;
       JP60-24663; JP60-221857; JP63-89954; JP63-271647
      - IBM Technical Disclosure Bulleting, vol. 31, No. 3, Aug. 1988, New
       York, pp. 303-306, `High performance microprocessor memory system`.
  CT - (EP-613087)
        Cited in the search report
```

- EP293720(A)(Cat. X); EP505157(A)(Cat. A)
- IBM TECHNICAL DISCLOSURE BULLETIN vol. 31, no. 3 , August 1988 , NEW YORK US pages 303 306 'High performance microprocessor memory system'(Cat. X)
- Revealed during examination
- EP604139(A)
- AB (US5579500)

An apparatus and method for controlling data read access to memory, in response to an access request sent through a system bus. The apparatus includes an data storage device for preserving data corresponding to a predetermined address; a judging device for judging whether an access address indicated by the access request matches the predetermined address; and a control device for making the data storage device output data preserved therein to the system bus when the access address has been judged to match the predetermined address, and for making the data storage device hold data corresponding to a next address subsequent to the access address when the access address has been judged not to match the predetermined address.

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## **Citation Searching**

The CITF and CITB commands will find more patent results that are relevant to your search by using the citations that are included on patent publications.

The **CITF** command retrieves subsequent patents that are citing the patents in your initial set. The new result set contains both the original patents and the citing patents.

The **CITB** command retrieves the previously published patents cited by the patents in your initial set. The new set contains both the original patents and the cited patents.

The correct search syntax is to enter the command followed by your search set number, e.g., **CITF SS 1.** The maximium initial set size for both commands is 1,000 records.

```
Selected file: PLUSPAT
 PLUSPAT - (c) Questel-Orbit, All Rights Reserved.
 Comprehensive Worldwide Patents database
 New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
 Last update of file: 2003/02/06 (YYYY/MM/DD) 2003-05/UP (basic update)
Search statement
MCGREW/IN AND WRIGLEY/PA
 Frequency
             Term
      491 MCGREW/IN
     2108 WRIGLEY/PA
  ** SS 1: Results 143
 Search statement
citf ss 1
 ** SS 2: Results 309
 Search statement
prt
 1/309 PLUSPAT - (C) QUESTEL-ORBIT
 PN - US6508955 B1 20030121 [US6508955]
  STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
 TI - (B1) Oxygen scavenger accelerator
 PA - (B1) PACTIV CORP (US)
  PAO - Pactiv Corporation, Lake Forest IL [US]
  IN - (B1) DEYO ALAN E (US); DELDUCA GARY R (US); LUTHRA VINOD K (US); WU
       WEN P (US)
 IC - (B1) A21D-010/02 B65D-081/26 C01B-003/00 C09K-015/32
 AP - US43961599 19991112 [1999US-0439615]
 PR - US43961599 19991112 [1999US-0439615]
      - US85644897 19970514 [1997US-0856448]
      - US70064496 19960808 [1996US-0700644]
      - US10831598P 19981113 [1998US-P108315]
 EC - A23B-004/16
      - A23L-003/3436
      - B01J-020/02
      - B01J-020/28
      - B65D-081/26F2
      - C09K-015/02
  PCL - ORIGINAL (O): 252188280; CROSS-REFERENCE (X): 252400100 426126000
       206204000
  DT - Corresponding document
  UP - 2003-05
```

## **Citation Searching (cont.)**

```
Search statement
citb ss 1
  ** SS 3: Results 582
 Search statement
prt
 1/582 PLUSPAT - (C) QUESTEL-ORBIT
 PN - US6455080 B1 20020924 [US6455080]
 STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
 TI - (B1) Chewing gum containing controlled release acyclic carboxamide and
       method of making
 PA - (B1) WRIGLEY W M JUN CO (US)
 PAO - WM. Wrigley Jr., Company, Chicago IL [US]
 IN - (B1) WOLF FRED R (US); MCGREW GORDON N (US); TYRPIN HENRY T (US)
  IC - (B1) A23G-003/30 A61K-009/68
 AP - US52716900 20000316 [2000US-0527169]
 PR - US52716900 20000316 [2000US-0527169]
      - WOUS9724166 19971229 [1997WO-US24166]
 EC - A23G-003/30 &D
      - A23G-003/30 &H6
  PCL - ORIGINAL (O): 426003000; CROSS-REFERENCE (X): 424048000 424440000
  DT - Basic
 UP - 2002-40
```

The FAMCITE command is available in the PlusPat database, which has citations for EP, FR, GB, PCT and US patents. After conducting a family search for a single patent family, you can display a complete citation report with the FAMCITE command. The report display in three parts:

- The original source family
- The citing patent families (families with a patent citing a member of the source family)
- The cited patent families (families with a patent cited by a member of the source family)

The results in all three sections show complete families. These fields are included for each family in the citiation report :

- PN Number and date of publication of all members
- TI English title of the first member
- OTI Non-English title of the first member
- PA Applicant of the first member
- IN Inventor of the first member
- AP Application numbers and dates of all members
- PR Priority numbers and dates of all members
- CT Citations of members EP, FR, GB, PCT, & US
- AB Summary of first member

You can also display clipped images by adding the parameter IMG. The complete command syntax is **FAMCITE IMG**.

The maximium initial set size for both commands is 1,000 records.

The FAMCITE command can not be used with the LEGAL or FULLTEXT display options.

```
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.
 Comprehensive Worldwide Patents database
 New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
 Last update of file: 2003/02/06 (YYYY/MM/DD) 2003-05/UP (basic update)
fam US5898235/PN
 1 Patent Groups
 ** SS 1: Results 2
famcite
 << Citation Report >>
 << Source Patent Family >>
 1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
 PN - US5898235 A 19990427 [US5898235]
       JP10214487 A 19980811 [JP10214487]
 TI - (A) Integrated circuit with power dissipation control
 PA - (A) ST MICROELECTRONICS INC (US)
 PAO - STMicroelectronics, Inc., Carrollton TX [US]
 IN - (A) MCCLURE DAVID C (US)
 AP - 1996US-0775611 19961231; 1997JP-0354340 19971224
 PR - 1996US-0775611 19961231
     - (US5898235)
       US4683382; US5167024; US5483464; US5513361
 AB - (US5898235)
       An integrated circuit device such as an SRAM operating in a battery
       backup mode, or operating in a quiescent mode when deselected in the
       operation of a portable electronic device, includes a power
       dissipation control circuit that reduces the voltage on an internal
        power supply node so that the memory array is powered at a minimum
        level sufficient to retain the data stored therein intact.
 << Citing Patents: Subsequent Patents Citing Source Family >>
 1/3 PLUSPAT - (C) QUESTEL-ORBIT
 PN - US6377681 B1 20020423 [US6377681]
     - (B1) Signal line driving circuit with self-controlled power dissipation
  PA - (B1) NAT SEMICONDUCTOR CORP (US)
 PAO - National Semiconductor Corporation, Santa Clara CA [US]
 IN - (B1) BREMNER DUNCAN JAMES (GB)
 AP - 1998US-0053110 19980401
 PR - 1998US-0053110 19980401
 CT - (US6377681)
       US5138658; US5323461; US5428682; US5881129; US5898235; US5912513;
       US6005934
 AB - (US6377681)
       A signal line driving circuit with power control for selectively
        reducing internal power dissipation when driving an external load.
       While driving the external load with a constant current the output
        voltage generated across such load is monitored. If the load impedance
        decreases sufficiently to cause the output voltage to fall below a
        predetermined threshold value and, therefore, cause the voltage across
        the signal line driving circuit to increase, the magnitude of the
       power supply voltage is automatically reduced, thereby reducing the
        voltage across the signal line driving circuit. Such a signal line
        driving circuit is particularly advantageous as a subscriber line
```

interface circuit (SLIC). As the subscriber goes from an on-hook condition to an off-hook condition and if the subscriber loop is sufficiently short (or low in impedance), a lower power supply voltage is used to minimize the power dissipation of the SLIC while still maintaining the required subscriber loop current.

```
2/3 PLUSPAT - (C) QUESTEL-ORBIT
PN - US2001028270 A1 20011011 [US20010028270]
      US6396336 B2 20020528 [US6396336]
      US6333671 B1 20011225 [US6333671]
ΤI
   - (B1) Sleep mode VDD detune for power reduction
PA - (B1) IBM (US)
PAO - International Business Machines Corporation, Armonk NY [US]
IN - (B1) ROBERTS ALAN L (US); WISTORT REID A (US)
AP - 1999US-0433279 19991103; 2001US-0883048 20010615
PR - 1999US-0433279 19991103; 2001US-0883048 20010615
CT - (US6333671)
      US4130899; US4683382; US4691123; US4716463; US5077518; US5477279;
      US5511026; US5530398; US5663919; US5747977; US5773966; US5898235;
      US6049245; US6118267; JP6-175956
    - "Leakage Current Reduction/Minimization through Substrate and/or Well
     Bias Control Coupled with Clock Power Management", IBM Technical
      Disclosure Bulletin, vol. 41 No. 01, Jan. 1998, pp. 547-549.
   - (US20010028270)
      US4130899; US4683382; US4691123; US4716463; US5077518; US5477279;
      US5511026; US5530398; US5663919; US5747977; US5773966; US5898235;
      US6049245; US6118267; JP6-175956
AB - (US6333671)
      The leakage current on a semiconductor is reduced while the
      semiconductor is in a sleep mode. This is accomplished by (1) placing
      the semiconductor in the sleep mode; (2) providing the semiconductor
      an internal supply voltage derived from an external supply voltage
      applied to the semiconductor chip (where the internal supply voltage
      is less in quantity than the external supply voltage); and (3)
      reducing the internal supply voltage when the semiconductor enters the
      sleep mode from an activated mode and returning the internal supply
      voltage to an activated mode level when the semiconductor returns to
      the activated mode. The reducing step includes supplying the external
      supply voltage to a reference circuit which outputs therefrom a
      reference voltage; and supplying the reference voltage to a regulator,
     where the regulator attempts to match the reference voltage and
      outputs therefrom the internal supply voltage. The reference circuit
      reduces the reference voltage when the semiconductor enters the sleep
      mode from an activated mode and returns the reference voltage to the
      activated mode level when the semiconductor returns to the activated
      mode. The reducing step can be performed by reducing the current flow
      to one or more diodes in the reference circuit when the semiconductor
      enters the sleep mode from the activated mode, and increasing the
      current flow to the diodes when the semiconductor reenters the
      activated mode from the sleep mode.
3/3 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US6294404 B1 20010925 [US6294404]
      JP2001155487 A 20010608 [JP2001155487]
   - (B1) Semiconductor integrated circuit having function of reducing a
      power consumption and semiconductor integrated circuit system
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PAO - Mitsubishi Denki Kabushiki Kaisha, Tokyo [JP]

IN - (B1) SATO HIROTOSHI (JP)

PA - (B1) MITSUBISHI ELECTRIC CORP

AP - 2000US-0568058 20000510; 1999JP-0339609 19991130

comprising this semiconductor integrated circuit

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- 1999JP-0339609 19991130
   - (US6294404)
      US5265060; US5543649; US5898235; US5955904; JP10-214487
AB - (US6294404)
      A semiconductor integrated circuit according to the present invention
      comprises a synchronous SRAM, a signal generation circuit generating a
      chip selection signal, a clock signal etc. supplied to the synchronous
      SRAM, a voltage set circuit setting the voltage of a system power
      supply line and a controller controlling the signal generation circuit
      and the voltage set circuit. When setting the synchronous SRAM in a
      power down mode, the chip selection signal is set in a nonselective
      state and the power supply voltage of the system power supply line is
      stepped down to a standby potential. Thus, the synchronous SRAM enters
      a standby state having extremely low power consumption.
<< Cited Patents: Previous Patents Cited by Source Family >>
1/4 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5513361 A 19960430 [US5513361]
TI - (A) Method and apparatus for reducing power consumption of a fan in a
      computer system
PA - (A) INTEL CORP (US)
PAO - Intel Corporation, Santa Clara CA [US]
   - (A) YOUNG BRUCE A (US)
   - 1994US-0279544 19940725
PR - 1994US-0279544 19940725
   - (US5513361)
      US4151611; US4279020; US4293927; US4381552; US4615005; US4642441;
      US4698748; US4712196; US4809163; US4842431; US4980836; US5247805
AB - (US5513361)
      A circuit for controlling power consumption of a fan within a computer
      system having a central processing unit (CPU) is described. The
      circuit includes a filter circuit coupled to receive a periodical
     pulse signal for detecting duty cycle of the periodical pulse signal
     by converting the periodical pulse signal into an analog signal. The
      analog signal has a voltage level proportional to the duty cycle of
      the periodical pulse signal. The periodical pulse signal is generated
      to control the CPU to be operational between predetermined intervals
      when the CPU is in an inactive state. A comparator circuit is coupled
      to the filter circuit for comparing the voltage level of the analog
      signal with a predetermined voltage level. When the voltage level of
      the analog signal is below the predetermined voltage level, the
      comparator circuit generates a switching signal. A switching circuit
      is coupled to (1) a power supply, (2) the fan, and (3) the comparator
      circuit for disconnecting the power supply from the fan when the
      switching signal is generated by the comparator circuit so as to
      substantially reduce the power consumption of the fan in the computer
      system when the CPU is in the inactive state. A computer system having
      the circuit for controlling power consumption of a fan in the system
      and a method for controlling power consumption of a fan in a computer
      system are also described.
2/4 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5483464 A 19960109 [US5483464]
     KR9505216 B1 19950522 [KR9505216]
   - (A) Power saving apparatus for use in peripheral equipment of a
      computer
PA
   - (A) SAMSUNG ELECTRONICS CO LTD (KR)
PAO - SamSung Electronics Company, Ltd., Kyungki-do [KR]
IN - (A) SONG MOON-JONG (KR)
    - 1993US-0176450 19931230; 1993KR-0005332 19930331
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- 1993KR-0005332 19930331
   - (US5483464)
      US4365290; US4591914; US4593349; US4667289; US4674031; US4677566;
      US4747041; US5059961; US5163124; US5175845; US5214785; US5237692;
      US5249298; US5251320; US5293494; US5347167; US5375245; US5384721;
      US5408668
   - (US5483464)
      An apparatus for use in the peripheral equipment of a computer reduces
      the needless consumption of power. Once it has been determined that
      the computer has not been used for a predetermined period of time, an
      operation control signal indicative of a specific control mode is
      supplied for controlling the supply of power to the computer's
      peripheral equipment and the computer's operating state. The operation
      of a power supply means for generating operating power to a computer's
      peripheral equipment is controlled in response to a detected control
     mode. Accordingly, energy is conserved by controlling the supply of
      power and the operating state of a computer's peripheral equipment
      according to the peripheral equipment's operational state.
3/4 PLUSPAT - (C) OUESTEL-ORBIT- image
PN - US5167024 A 19921124 [US5167024]
     AU6016890 A 19910314 [AU9060168]
      AU629019 B2 19920924 [AU-629019]
      CA2024552 A1 19910309 [CA2024552]
      DE4028175 A1 19910321 [DE4028175]
      GB9018259 D0 19901003 [GB9018259]
      GB2235797 A 19910313 [GB2235797]
      GB2235797 B 19930818 [GB2235797]
     HK36394 A 19940429 [HK9400363]
      JP3171317 A 19910724 [JP03171317]
      SE9002838 D0 19900906 [SE9002838]
      SE9002838 A 19910309 [SE9002838]
      SG7294 G 19940610 [SG9400072]
TI - (A) Power management for a laptop computer with slow and sleep modes
OTI - (A1) ENERGIEMANAGEMENTANORDNUNG FUER EINEN TRAGBAREN COMPUTER
PA - (A) APPLE COMPUTER (US)
PAO - Apple Computer, Inc., Cupertino CA [US]
   - (A) SMITH R STEVEN (US); HANLON MIKE S
                                              (US); BAILEY ROBERT L (US)
INO - (A) SMITH R STEVEN; HANLON MIKE S; BAILEY ROBERT L
   - 1992US-0845781 19920305; 1990SE-0002838 19900906; 1990AU-0060168
      19900803; 1990DE-4028175 19900905; 1994SG-0000072 19940117;
      1994HK-0000363 19940421; 1990CA-2024552 19900904; 1990GB-0018259
      19900820; 1990JP-0237294 19900910
PR - 1989US-0405637 19890908; 1992US-0845781 19920305; 1994SG-0000072
      19940117
   - (US5167024)
      US4019068; US4074351; US4151611; US4279020; US4293927; US4317181;
      US4381552; US4409665; US4611289; US4615005; US4698748; US4712196;
     US4747041; US4809163; US4851987; US4907150; US4980836; EP1723394
AB - (US5167024)
      A power manager within a portable laptop computer provides power and
      clocking control to various units within the computer in order to
      conserve battery power. Transistor switches controlled by the power
     manager control the distribution of power and/or clock signals to the
     various units within the computer. The power manager includes a
      software routine for continually monitoring the various units and when
      these units are either not needed and/or not currently in use, power
      and/or clock signals are removed from a given unit.
4/4 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US4683382 A 19870728 [US4683382]
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DE3481957 D1 19900517 [DE3481957]
      EP0157905 A2 19851016 [EP-157905]
      EP0157905 A3 19870729 [EP-157905]
      EP0157905 B1 19900411 [EP-157905]
      JP60176121 A 19850910 [JP60176121]
      JP5047848 B 19930719 [JP93047848]
     JP1838072 C 19940411 [JP1838072]
TI - (A) Power-saving voltage supply
OTI - (A2) Halbleiteranordnung.
    - (A2) Dispositif semi-conducteur.
   - (A) TOKYO SHIBAURA ELECTRIC CO (JP)
PAO - Kabushiki Kaisha Toshiba, Kawasaki [JP]
IN - (A) SAKURAI TAKAYASU (JP); IIZUKA TETSUYA (JP)
AP - 1984US-0667417 19841101; 1984DE-3481957 19841030; 1984EP-0113078
     19841030; 1984JP-0032068 19840222
PR - 1984JP-0032068 19840222
CT - (US4683382)
     US4580063; US4581551
    - Mano et al., "Submission VLSI Memory Circuits," ISSCC Digest of
     Technical Papers, pp. 234-235, Feb. 1983.
      Itoh et al., "An Experimental IBM DRAW with On-Chip Voltage Limiter,"
      ISSCC Digest of Technical Papers, pp. 282-283, Feb. 1983.
CT - (EP-157905)
     Cited in the search report
    - US4054830(A)(Cat. A); US4390833(A)(Cat. A); GB2034937(A)(Cat.
     A); EP63483(A) (Cat. A)
    - PATENT ABSTRACTS OF JAPAN, vol. 6, no. 34 (P-104)[912], 2nd March
      1982; & JP-A-56 153 415 (SHINDENGEN KOGYO K.K.) 27-11-1981(Cat. X)
    - PATENT ABSTRACTS OF JAPAN, vol. 3, no. 156 , 21st December 1979, page
      43 E 161; & JP-A-54 137 246 (OKI DENKI KOGYO K.K.) 24-10-1979(Cat. A)
    - MOTOROLA TECHNICAL DEVELOPMENTS, vol. 2, January 1982, page 30,
     Motorola, Schaumburg, Illinois, US; LAL SOOD: "Circuit for reducing
      standby power for a memory device" (Cat. A)
AB - (US4683382)
      In a semiconductor device according to the invention, first and second
      voltage dropping circuits, for generating voltages respectively having
      smaller values than that of an external power supply voltage, are
      provided. The first voltage dropping circuit, which consumes
      relatively less power, is always in the operative mode, and the second
      voltage dropping circuit, which consumes more power than that of the
      first voltage dropping circuit, is operated during an interval other
      than a standby interval. The voltages generated by the first and
      second voltage dropping circuits are supplied to an internal power
      supply line in parallel with each other.
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### **Other Display Options**

1) **Legal Feature:** Display including corresponding Legal Status record(s):

PRT <SS N> <format> <set, m-n> <Legal Feature>

Example:

PRT SS 3 FULL 1-5 LEGAL display records 1 thru 5 in FULL format from the search set number 3 PRT STDR 1-10 LEGALALL display records 1 thru 10 in STDR format from the last search set display all the records in FULL format from the last search set

Legal Feature Displays Legal Status Records from the following databases

LEGAL LGST (Legal Status)

LEGAL MAXE LGST (Legal Status) - English text only
LEGALEP EPPATENT (European Patents)
LEGALIFI CRXX (Claims/Reassignments)

LEGALERT LITA (LitAlert)

LEGALUS CRXX (Claims/Reassignments), LITA (LitAlert)

LEGALLCL LGST (Legal Status), CRXX (Claims/Reassignments), LITA (LitAlert) LGST (Legal Status), CRXX (Claims/Reassignments), and LITA (LitAlert)

Full-text Feature: Display including corresponding Full-text record(s):

Record display commands issued within PLUSPAT file will display bibliographic records with corresponding claims and descriptions from the US, EP or PCT full-text records.

PRT <SS N> <format> <set, m-n> <display feature> format - display format in bibliographic file

set - complete set of records, m-n - record numbers

Example:

PRT FULL FULLTEXT displays both the record from the PLUSPAT and a full-text record PRT STDR FULLCLMS displays both the record from the PLUSPAT and a text of the claims

PRT STGS FULLUS CLMS displays both the record from the PLUSPAT and text of the claims from USPAT

Display Feature Displays Full-Text Records from the following databases

FULLTEXT USPAT, EPAPAT, PCTFULL

FULLCLMS (claims only) USPAT, EPAPAT, PCTFULL

FULLUS USPAT

FULLUS CLMS (claims only) USPAT

FULLEPO EPAPAT

FULLEPO CLMS (claims only) EPAPAT

FULLWO PCTFULL

FULLWO CLMS (claims only) PCTFULL

Note: The Legal and Full-text display features cannot be used with the ID display commands.

For the complete listing of all available Legal and Full-text features please consult the appropriate Questel Orbit System Guides.

# **Document Display**

FORMAT E	פתוחדי

STDR	PN	STG	TI	OTI	IT	PA	PA0	IN	INO	IC	PN2	STG2	TI2
	OTI2	PA2	IN2	IC2	PN3	STG3	TI3	OTI3	PA3	IN3	IC3	PN4	STG4
	TI4	OTI4	PA4	IN4	IC4	PN5	STG5	TI5	OTI5	PA5	IN5	IC5	PN6
	STG6	TI6	OTI6	PA6	IN6	IC6	PN7	STG7	TI7	OTI7	PA7	IN7	IC7
	PN8	STG8	TI8	OTI8	PA8	IN8	IC8	PN9	STG9	TI9	OTI9	PA9	IN9
	IC9	LA	AP	FD	PR	EC	ICO	IDT	PCL	BC	DS	DT	UP
TEST	ΤI	OTI	ΙT	IC	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	EC
	ICO	IDT	PCL	BC									
MAX	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	IN	INO	AP
	FD	PR	IC	EC	ICO	IDT	PCL	BC	DS	DT	CT	STG	STG2
	STG3	STG4	STG5	STG6	STG7	STG8	STG9	AB	UP	DI	O1	010	0102
										m =	OFF	T. M.	T 7
FULL	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	IN	INO	AP
	FD	PR	IC	EC	ICO	IDT	PCL	BC	DS	DT	CT	STG	STG2
	STG3	STG4	STG5	STG6	STG7								
	STG8	STG9	AB (	JP									
FU	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	IN	INO	AP
	FD	PR	IC	EC	ICO	IDT	PCL	BC	DS	DT	CT	STG	STG2
										DI	CI	516	5162
	STG3	STG4	STG5	STG6	STG7	STG8	STG9	AB	UP				
FUF	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	IN	IN0	AP
	FD	PR	IC	EC	ICO	IDT	PCL	BC	DS	DT	CT	STG	STG2
	STG3	STG4	STG5	STG6	STG7	STG8	STG9	AB	UP				
ALL	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	TI2	TI3	TI4
	TI5	TI6	TI7	TI8	TI9	OTI	IT	OTI2	OTI3	OTI4	OTI5	OTI6	OTI7
	OTI8	OTI9	LA	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9
	IN	INO	IN2	IN3	IN4	IN5	IN6	IN7	IN8	IN9	AP	FD	PR
	IC	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	EC	IC	IDT	PCL
	BC	DS	DT	CT	STG	STG2	STG3	STG4	STG5	STG6	STG7	STG8	STG9
			DI	CI	216	3162	5165	2164	2163	2160	3167	3160	3163
	AB	UP											
STGS	PN	STG	TI	OTI	IT	PA	PA0	IN	IN0	IC	PN2	STG2	TI2
	OTI2	PA2	IN2	IC2	PN3	STG3	TI3	OTI3	PA3	IN3	IC3	PN4	STG4
	TI4	OTI4	PA4	IN4	IC4	PN5	STG5	TI5	OTI5	PA5	IN5	IC5	PN6
	STG6	TI6	OTI6	PA6	IN6	IC6	PN7	STG7	TI7	OTI7	PA7	IN7	IC7
	PN8	STG8	TI8	OTI8	PA8	IN8	IC8	PN9	STG9	TI9	OTI9	PA9	IN9
	IC9	LA	AP	FD	PR	EC	ICO	IDT	PCL	BC	DS	DT	CT
	AB	UP											
TR	TI	OTI	IT	IC	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	EC
11/	ICO	IDT	PCL	BC	102	103	101	100	100	107	100	103	шС
00				ьс									
SC	TI	OTI	IT										
SCAN	TI	OTI	IT										
ABST	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	PA	PA0	IN	INO	AP	FD	PR	CT	STG	STG2	STG3	STG4	STG5
	STG6	STG7	STG8	STG9	AB	UP							
BRF	PN	PN2	PN3	PN4	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	LA
	IN	INO	PA	PA0	AP	FD	PR	IC	EC	DS	STG	STG2	STG3
	STG4	STG5	STG6	STG7	STG8	STG9							
BIB	PN	TI	OTI	IT	PA	PA0	IN	IN0	AP	FD	PR	CT	STG
	STG		STG3		STG5	STG6		STG8	STG9		PN2		
DOC		STG2		STG4			STG7			PN		PN3	PN4
	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	AB	DS _	AP	FD	PR
	IN	IN0	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	
DOCF	STG	STG2	STG3	STG4	STG5	STG6	STG7	STG8	STG9	PN	PN2	PN3	PN4
	PN5	PN6	PN7	PN8	PN9	TI	OTI	IT	AB	DS	AP	FD	PR
	IN	INO	PA	PA0	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	
MTST	TI	OTI	IC	EC	ICO	PCL							
MSC	TI	OTI	IC	EC	ICO	PCL							
MABS	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL
1.17.17.0	DS	AB	011	T 4 7	1110	T 1.4	T140	111	T 1/	10	10	100	тОП
	טע	AD											

MSTD	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL
	DS												
MALL	PN	ΤI	OTI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL
	DS	CT	AB										
MMAX	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL
	DS	CT	AB										
MMSS	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	DS			
MSTA	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL
	DS	AB											
MINI	PN	ΤI	PA	PA0	IN	INO	AP	PR					
MASE	PN	ΤI	PA	PA0	IN	INO	AP	PR	AB				
BIBP	PN	STG	PN2	STG2	PN3	STG3	PN4	STG4	PN5	STG5	PN6	STG6	PN7
	STG7	PN8	STG8	PN9	STG9	TI	PA	PA0	IN	INO	AP	FD	PR
	CT												
MSTE	PN	TI	PA	PA0	IN	INO	AP	PR	IC	EC	ICO	PCL	DS
	AB												
MSTG	PN	STG	TI	OTI	PA	PA0	IN	INO	IC	AP	PR	EC	ICO
	IDT	PCL	BC	DS									
MCIT	PN	TI	OTI	PA	PA0	IN	INO	AP	PR	CT	AB		

<sup>• &</sup>quot;Standardized Number" (XPN, XAP, XPR), fields are not included in any display format. To display these items enter the field name with the PRT command:

Example: PRT XPR or PRT MAX PLUS XPR

#### **User-defined formats**

Create customized format for the records display: FOR <name> <field1> <field2> <field3> ...<field10> (format name up to 4 characters, include up to 10 fields)

General Syntax: FOR DISP PN TI OTI PA IN AP PR CT STG EC

Command Syntax: PRT DISP SET or PRT DISP SS 2 1-10

## List of Fields

All these fields may be used with the PRT, LI, BR and =YES commands.

AB	Abstract of the Invention
AN	Accession Number
AP	Application Data
APD	Application Date
BC	Berlin Classification
СТ	Cited Patents
DS	Designated States
DT	Document Type
EC	ECLA Classification (EPO)
FD	Filing Details – US Publications Only
FPR	Family Priority Number
IC	IPC (issuing Office)
ICA	Additional IPC (International Patent Classification Codes)
ICM	Main IPC (International Patent Classification Codes)
ICO	ICO Classification
ICS	Secondary IPC (International Patent Classification Codes)
IDT	Dutch Classification
IN	Inventor
INC	Inventor Country
IN0	Inventor Name – Transliteration Free – Japanese Publications Only
INN	Inventor Name
IT	Index Terms – Select French Publications
LA	Language
NPR	Number of priorities
ОТІ	Other Title
PA	Patent Assignee
PAC	Patent Assignee Country
PAN	Patent Assignee Name

### List of Fields (cont'd)

List of Fields (cont a)							
PA0	Patent Assignee Name – Transliteration Free – US, EP(06/2002), FR, JP, PCT (02/2003)						
PCL	US Class Code						
PD	Patent Date						
PN	Patent Number						
PR	Priority Details						
PRD	Priority Date						
QW	Update Code - Questel Week						
QM	Update Code – Questel Monthly						
STG*	Publication Stage (*this is not searchable)						
TI	Title of the Invention						
UAB	Update Code - Addition of Abstracts						
UCL	Update Code – Addition of European or US Classification Codes						
UE	Update Code - Addition of Publication Stages						
UCT	Update Code – Addition of Citations/Search Reports						
UP	Update Code						
XAP	Standardized Application Number						
XCT	Standardized Citation Number						
XPN	Standardized Patent Number						
XPR	Standardized Priority Number						